

Appl. No. 10/711,617
Amdt. dated May 08, 2007
Reply to Office action of February 08, 2007

Amendments to the Claims:

Listing of Claims:

Claim 1 (currently amended): A liquid crystal display module comprising:

5 a glass substrate having a display area and a peripheral area, a plurality of scan lines and a plurality of data lines is separately formed on the display area along horizontal and vertical directions;

at least a gate driver chip mounted directly on the peripheral area of the glass substrate ~~with a chip-on-glass technology~~, the gate driver chip transmits signals to the scan lines via a plurality of output terminals, and thickness of the gate driver chip is
10 less than 0.3 mm; and

at least a source driver chip mounted directly on the peripheral area of the glass substrate ~~with a chip-on-glass technology~~, the source driver chip transmits signals to the data lines via a plurality of output terminals, and thickness of the source driver chip is less than 0.3 mm.

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Claim 2 (canceled)

Claim 3 (original): The liquid crystal display module of claim 1, wherein the gate driver chip and the source driver chip are mounted on the glass substrate with an
20 adhesive material.

Claim 4 (original): The liquid crystal display module of claim 3, wherein the adhesive material includes an anisotropic conductive film.

25 Claim 5 (original): The liquid crystal display module of claim 1 further comprising at least a flexible printed circuit board mounted on the peripheral area.

Claim 6 (currently amended): A liquid crystal display module comprising:

30 a glass substrate having a display area and a peripheral area, a plurality of scan lines and a plurality of data lines are separately formed on the display area along

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horizontal and vertical directions;

at least a gate driver chip mounted directly on the peripheral area of the glass substrate ~~with a chip-on-glass technology~~, the gate driver chip transmits signals to the scan lines via a plurality of output terminals, and the gate driver chip is bendable; and

- 5 at least a source driver chip mounted directly on the peripheral area of the glass substrate ~~with a chip-on-glass technology~~, the source driver chip transmits signals to the data lines via a plurality of output terminals, and the source driver chip is bendable.

10 Claim 7 (canceled)

Claim 8 (original): The liquid crystal display module of claim 6; wherein thickness of the gate driver chip is less than 0.3 mm.

- 15 Claim 9 (original): The liquid crystal display module of claim 6, wherein thickness of the source driver chip is less than 0.3 mm.

Claim 10 (original): The liquid crystal display module of claim 6, wherein the gate driver chip and the source driver chip are mounted on the glass substrate with an

- 20 adhesive material.

Claim 11 (original): The liquid crystal display module of claim 10, wherein the adhesive material includes an anisotropic conductive film.

- 25 Claim 12 (original): The liquid crystal display module of claim 6 further comprising at least a flexible printed circuit board mounted on the peripheral area.

Claim 13 (currently amended): A liquid crystal display module comprising:

- 30 a glass substrate having a display area and a peripheral area, and a plurality of wires formed on the display area along horizontal and vertical directions; and

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at least a driver chip mounted directly on the peripheral area of the glass substrate ~~with a chip-on-glass technology~~, wherein the thickness of the driver chip is less than 0.3 mm.

- 5 Claim 14 (previously presented): The liquid crystal display module of claim 13, wherein the driver chip is mounted on the glass substrate with an adhesive material.

Claim 15 (previously presented): The liquid crystal display module of claim 14, wherein the adhesive material includes an anisotropic conductive film.

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Claim 16 (previously presented): The liquid crystal display module of claim 13 further comprising at least a flexible printed circuit board mounted on the peripheral area.

- 15 Claim 17 (previously presented): The liquid crystal display module of claim 13, wherein the wires comprise scan lines and data lines.

Claim 18 (previously presented): The liquid crystal display module of claim 17, wherein the driver chip is a gate driver chip, such that the gate driver chip transmits signals to the scan lines via a plurality of output terminals.

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Claim 19 (previously presented): The liquid crystal display module of claim 17, wherein the driver chip is a source driver chip, such that the source driver chip transmits signals to the data lines via a plurality of output terminals.